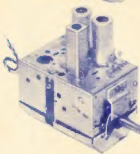
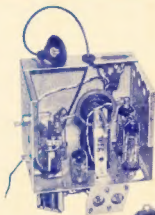


DECEMBER  
1956

- ANOTHER TWO-METRE CONVERTER
- 1956 REMEMBRANCE DAY CONTEST RESULTS

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# AMATEUR RADIO

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## EDITORIAL



## AIMS OF THE INSTITUTE

To act as the voice of the Amateur in public discussions.

To assist in the investigation of communication problems.

To conduct educational work.

To provide a medium for exchange of ideas and to publish a journal.

To promote friendships between experimenters.

At this time of the year most people endeavour to convey to others, expressions of Christmas goodwill, and to show in a practical manner by the exchange of gifts, that friendship means something real and valuable to them.

The spirit of friendship has much to commend it at all times and the Radio Amateur knows that his attitude to his fellow Amateur is important in this respect, as friendship has always been part of the Amateur's code.

At this season of the year, it seems to us that we should ensure that our help and co-operation is extended more heartily and consistently than usual to others interested in Amateur Radio, and that we make special efforts to break down the natural shyness and reserve which often prevents us getting together.

Your Federal Executive suggests that you endeavour to carry the Christmas spirit to some young enthusiast in Radio, with the intention of assisting him to qualify as the holder of an experimental licence.

No doubt many of our members already do assist others in this way, but there are plenty of young people who would be cheered and helped by a little practical assistance and advice.

Christmas offers a suitable opportunity for us to visit other Amateurs, especially establishing friendly relations with our near neighbours as well as forming lasting friendships with other Divisional members.

For those who are shy types and find it difficult to form new friendships, this time of the year makes new contacts easy. Everyone is more easily approached at Christmas and the general spirit of friendliness makes these contacts simple and effective.

We have been reading through some old copies of "QST" (1928 vintage) and find that the prevailing spirit of those days was "real and practical friendship." Perhaps that is why some of our overseas Amateur Radio associations have grown and developed to the strength they enjoy today.

Your Federal Executive desires to extend sincere thanks to all those who have assisted in the administration and development of the Wireless Institute of Australia and to express the wish on behalf of the Federal Council that Christmas will be a season of goodwill indeed and that the New Year will be a happy one for you and yours.

FEDERAL EXECUTIVE

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## ANOTHER TWO-METRE CONVERTER

BY R. M. WINCH,\* VK2OA

**YES!** Another 2 metre converter using the same old tubes and the same old cascade circuit with the same old overtone oscillator and multiplier. Well, why all the hullabaloo and fuss? The answer is in the way it is put together!

If you live read the results of sundry fox hunts, hidden transmitter hunts, etc., which have taken place in VK2 land you may (?) have gained the impression that VK2OA is one of the top line boys on 2 metres in Sydney. This shows just how wrong you can be. Chasing signals down a back road of Killara and chasing paradiadises down the screen circuit of a 6AK5—ahhh! there you have two entirely different set-ups. VK2OAC can (and has) run into every bit as much life as the VK2 gear. The latter is never visualised by "A.R." ("A.R." Aug. '55) and VK5EF ("VK2" June '56). For months, his pet 2 metre converter had a noise figure which only occasion-

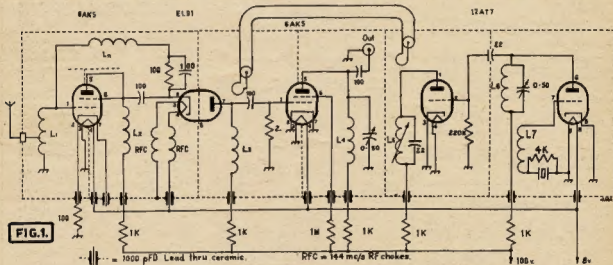
with each other. The technical boys refer to this sort of thing as r.f. coupling, of some form or other. The straight-through mutual inductive link with shielding generally the more the better. Now, straight-through mutual inductive coupling can be a menace, but at least we can see it. With one coil here and another coil there, we can visualise the lines of force reaching out from coil to coil and we can see what a beautiful job the shield does in foiling their dirty designs. But what you can see is only half the story!

See that lead sneaking under the first coil, around the end of the shield and under the second coil on its way to the second valve socket? The shield isn't in the race against that one. See that three-quarter inch long cathode resistor? Whoa! Before you eighty metre types get too sarcastic, try putting a 10-watt wire-wound resistor in the cathode of your final and then by-pass it with a

Nevertheless, with modern high-gain tubes they are a must, irrespective of what frequency we are using. The catch is that the difficulty of accomplishment is proportional to the frequency we are using. (3" at 80 metres equals . . . . Struth! I can't get the iron in.) However, if you are willing to change your conventional constructional ideas a little you will find the problem is softened up somewhat.

### PRACTICAL APPROACH

Too long have we followed the old idea of putting all the valves, transformers and other bulky items on top of the chassis and all the wiring, resistors, capacitors and other small items underneath. Why not divide our leads and components into "hot" and "cold" categories? Then, if we put one lot on one side of the chassis and the other lot on the other side of the chassis, we have automatically shielded them from



ally dropped below 20 db. so that when he finally built a new converter which came up, first go, with a noise figure of 5 db., there must be something worth talking about, don't you think?

## TECHNICAL REASONING

In every piece of r.f. apparatus there is both "hot" and "cold" leads and components. Circuitwise, that is OK, but when it comes to construction some very nasty little problems rear their ugly heads. Obviously, we want to get the "hot" bits as hot as we can; you know, lo-loss, hi-Q sort of thing. That is what the hand-book means when it talks about ceramic valve sockets, air supported coils wound of heavy wire of an optimum form factor and not too close to surrounding metal, etc.

Also, we do not want different families of "hot" leads getting mixed up

0.1 uF. paper capacitor to a spot on the chassis two feet six inches away from the cathode. (4" at 2 metres equals 2' 6" at 80 metres.) Rocks you, doesn't it?

By now, you should be at the stage where you will readily believe that we want our "cold" leads and components so cold that they have icicles on them and they should be like that all over. (Who said take it up to the top of Mt. Kosciusko?). From the foregoing it will be seen that we should treat each cold lead and component in the following manner:—

- (a) **Completely** shield it from all hot leads and components so that no r.f. can be induced into it, either inductively or capacitively, **and**
- (b) Where the cold lead joins a hot component, **completely** by-pass the junction to ground.

These sound to be very stringent requirements which we have to fill.

other other. That has fixed up require-  
ment (a).

Now we come to requirement (b). Suppose we consider the lead from the cold end of the plate coil which we want to by-pass and then take through the chassis to h.t. Our normal way of looking at by-passing is by providing an easier path for the r.f. to get to ground. The way we should look at it is that the r.f. potential at the by-passed point is proportional to the impedance between that point and ground. Note the use of "impedance" instead of "capacitive reactance." Again, this "cold" lead still has to get from the by-passed point to the hole in the chassis and on its way it can have r.f. induced into it. OK! Then we want a by-pass capacitor with **no impedance** and the by-passed point wants to be right at the hole in the chassis.

That certainly is a tough assignment, but we can get full marks for the sec-

\* 38 Boundary Street, Parramatta, N.S.W.



and part and score pretty highly for the first part if we use ceramic lead-through capacitors to do our by-passing. These little dinguses have been in existence for a fair while, but they seem to be not so well known as they should be. Briefly, they consist of a ceramic tube plated inside and outside. Through the centre is a lead connected to the inside coating and sticking out both ends. The outside coating is connected to some form of mounting so that the capacitor can be mounted in a hole in the chassis with one half of the centre conductor on each side of the chassis. Since the outside electrode becomes an integral part of the chassis the overall impedance between the centre and ground is virtually the reactance of the capacitance only.

They can be placed around the valve socket so that the screen, cathode and filament connections of the socket can be connected to them with the minimum of lead length. The supply leads, of course, being connected to the other end of the centre conductor which is on the cold side of the chassis. (The cold end of the plate coil is supported by one also.) These capacitors are currently available from VK5EF's friend, they hold 1000 puffs and they can stand more jolts than you can. And they compare in price with the Asprofs VK5EF consumed.

#### PRACTICAL APPLICATION

Now that you have the meat of the story here are some pretty pictures. Fig. 1 shows the circuit of the converter drawn in a fashion which illustrates how the two categories—"hot" and "cold"—are kept apart. Fig. 2 shows the layout on the hot side of the chassis. The cold side is not shown as it is not in the least bit critical. The original converter was built long and narrow only because it had to fit into a given space in a mobile rig. The chassis and partitions were made from twelve "thou" shim brass bent up with pliers and soldered together. The chassis itself was bent up and soldered first. The socket holes were then punched and the sockets mounted. After that the partitions were shaped and soldered into place, and finally the holes for the lead-through capacitors were made. Of course, if you are a blacksmith you can use heavy gauge brass, but it is surprising just how rigid the shim is.

The circuit is straightforward and has appeared in many publications over the last five years or so. The EC91 was chosen for the grounded grid stage because it gave a better layout than the conventional 6J6 or 12AT7. There may be some argument about the use of the pentode mixer, but some research (into

"QST" and the like) seemed to sum up that if the cascade is doing its job properly the difference in noise between a triode and a pentode mixer does not mean much and the pentode is not so critical of oscillator injection voltage.

The overtone oscillator circuit used as chosen for its ease of adjustment. The plate circuit of the multiplier section is shown as being slug tuned (brass slug!). This could equally well have been capacitively tuned. The deciding factor in this case was the availability of a nice ceramic former already slugged and the non-availability of a suitable small sized variable capacitor. Which ever way it is done it should not be too broad in its response. Any r.f. at other than the desired harmonic appearing in this coil will get on to the mixer grid and cause some extra noise without causing some extra signal. The link from this coil to the mixer grid coil was made from a single piece of co-axial cable. The outside, braid and inside were stripped to leave enough of the inner conductor to form a single turn loop.

A hole was bored in the chassis, the co-ax pushed through from the top, the braid soldered to the chassis, then the piece of inner conductor bent round to form a single turn and the end soldered to the end of the braid. The single turn is closely coupled to the cold end of the coil.

#### GETTING IT GOING

This is where you re-read the articles written by those two blokes whose names were mentioned earlier, say to yourself, "They don't scare me—I think," get out the g.d.o. and start some serious work. In addition to the g.d.o. you will want twice as much coil wire as you estimated and a thin stick which has a small brass slug mounted on one end and an iron dust slug on the other end. (Once upon a time when we wound our own broadcast coils, this dingus was known as a "tuning wand." Remember?)

L1, L2, and L3 could start off at four turns,  $\frac{1}{8}$ " diameter, spread out a fair bit and with L1 tapped one-third the way up. L4 could be made about 13 turns,  $\frac{1}{8}$ " diameter and almost close wound. L4, L5, L6 and L7—well, you're on your own there, chum. The size of these will be determined by the crystal frequency.

Just to save all argument, let's assume that the crystal frequency is 8500 Kc. That means that L3 is 25.5 Mc. (that is where L6/7 has to go) and—let's see—five times that is 127.5 Mc. (L5) which gives 16.5 to 20.5 Mc. out, so straight-away you can play around with L4 until it hits approximately 17-17.5 Mc. This done, forget it and turn to L6. Wind eleven coils of different sizes and pick

the one that resonates at 25.5 Mc. with approximately 35 pF. across it (wired into the circuit and with the valves plugged in, of course). Incidentally, a good former for this coil is a piece of the polythene out of co-ax cable.

Now carefully remove L6 from the chassis and wrap a small piece of paper around the cold end of the former. On the paper wind L7 with approximately one-third the number of turns in L6. Fasten the turns of L7 down—not with chewing gum—and make sure that it will slide up and down so that the coupling can be varied. Now put it back and wire it in. Better check that L6 still hits 25.5 Mc!.

Apply the h.t. on it and see what happens. By tuning the plate circuit it should be possible to make the stage oscillate. If no oscillation occurs at any setting of the plate tuning check the following: L7 either wound or connected back-to-front, insufficient coupling between L6 and L7, L7 too small.

With oscillation occurring over a wide range of plate tuning, decrease the coupling a little bit at a time until the stage oscillates over only one small portion of the plate tuning. Now listen on 25.5 Mc. for that nice clean crystal note and make sure that there is nothing else.

Got that all fixed up? Good! You're halfway. Laddie, you've made an overtone oscillator work and you may now go out and crow over those uninformed 80 metre types that inhabit your town. They'll only look at you with pity, but take no notice.

Come back and put the g.d.o. over L1, L2 and L3. Squeeze, push, pull, stretch or whatever is necessary to make them resonate at 144.5 Mc. and then use the same procedure to make L5 resonant at 127.5 Mc. (Don't forget your crystal won't be 8500, so for 25.5 and 127.5 Mc. read the appropriate multiples of your crystal.) While you have been doing this, you will have noticed that L2 has a very broad response. Don't worry, that is how they all are.

Now comes the big moment! Make sure that the 2 metre beam is connected to the converter and that the converter is connected to the receiver, which is switched to the right frequency range, and that the speaker is connected. (You would be amazed just how essential it is to do all those things.) Hit the big switch and as soon as it has warmed up, tune over the band, starting at 144 Mc. What? No signals? Of course there isn't. It is Saturday night and they have all gone to the pictures. Never mind, they'll be there tomorrow night.

(Continued on Page 7)

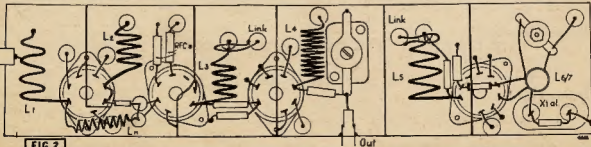


FIG. 2

# ZEPHYR MICROPHONES



"THE MICROPHONE THAT SPEAKS FOR ITSELF"

## TYPE "80"

A high quality Moving Coil Microphone of striking appearance and fidelity.

- Ideal for transmission of voice or music.
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TYPE "80"  
MOVING  
COIL

## TYPE "8XA"

A quality Crystal Insert with "Zephyrfil" filter.

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# Nullabor Plains Expedition, '56-7

BY G. M. BOWEN,\* VK5XU

**T**HE Expedition is being run in conjunction with the first National Conference of Australian Speleologists (cave explorers to the uninitiated) and constitutes one of the major scientific expeditions in this field undertaken in Australia. It aims to acquire data on this remote area in the west of South Australia which hitherto it has not been possible to obtain because of its inaccessibility and the inhospitable nature of the terrain.

Most Australian States now have a group of enthusiasts who are devoted to the exploration of caves and the Conference, which precedes the Expedition, is being held in order to inaugurate a National Federation of Australian Speleologists. This is to be held at Pamanga, near Christies Beach, some 20 miles south of Adelaide, from 26th to 28th December, 1956.

At 0400 hours, on the 29th, approximately 60 members, from three States, will set out for the Nullabor Plains under the leadership of the S.A. Cave Exploration Group (Elery Hamilton-Smith, President). They will travel in trucks, each vehicle being fully equipped with material for exploring the caves and carrying its own food, water and fuel. Ceduna will be the dispersal location where final details will be arranged and water taken aboard for the 10 days in the field. The trucks will disperse over the Nullabor Plains to form the apexes of a triangle some 100 miles apart, operating in areas far removed from civilization.

Contact between each party and the Headquarters vehicle will be by radio communication as each truck will be equipped with mobile transceivers. These will operate on the 5 Mc. and 8 Mc. frequencies allocated to the Bush Church Aid Society at their Ceduna base. George Cameron (VK5EC) is in charge of the radio network in that area. Each vehicle will also be able to contact Ceduna direct in any case of emergency.

As organiser of that side of the expedition, I shall naturally be carrying equipment capable of operating on the Amateur bands and whenever possible—as power permits, usually in these cases—will be on the air looking for contacts.

The question is bound to be asked by someone—"What is the value of such an excursion?" Well, although the cost is approximately £25 per person (and paid by them too!), very little is known of this unique area except that it is a large limestone plateau rising some 500 feet above sea-level, and in places above the surrounding country another 200 feet. It is not perfectly horizontal, having a marked slope from west to east. Propagation of medium frequency radio waves by ground wave is negligible because of the very poor conductivity of the earth (compare the S.E. of South Australia) and some trouble is anticipated on the 2020 Kc. frequency unless dipoles or counterpoises are used.

\* 72 Portrush Road, Toorak Gardens, South Aus.

Many caves occur in the area. Some of them have amazingly large single chambers with ceilings reaching 250 feet. Others penetrate to the water table nearly 300 feet below the surface and provide large areas of deep lakes which can be navigated in dinghies. The mineral content of much of this water is too high for human use—except externally; and summer being what it is, and the temperatures on the Nullabor Plains running usually over the century, I guess that any water will be acceptable, even though I have been told that its normal temperature is just above 65 degrees—"shiver-me-timbers."

Scientists in every branch will be making their studies of the rock formations and origins of the caves will be "meat" for the geologists; physicists will plot air temperatures and movement within the caves; zoologists, animal life on and below the plains: botanists, plant life; anthropologists will be looking for signs of native occupation and relics of earlier periods; surveyors will accurately map the caves and their exact positions will be determined; photographers will gather valuable records of everything that is worth photographing.

And what will yours truly be doing? Well, that's a secret even to him yet, but he'll let you know if and/or when he returns! So keep listening, chaps.

The W.I.A. is in this up to its neck, by heck!

## AMATEUR CALL SIGNS

FOR MONTH OF SEPTEMBER, 1956

### NEW CALL SIGNS

- VK—New South Wales**  
 2AE—L. E. Harris, 26 Park Ave., Wailara.  
 2QH—H. D. Howe, 25 Maroubra Bay Rd., Pagewood.  
**Victoria**  
 3ZDI—B. J. Crisp, 69 Northcliffe Av., Edithvale.  
 3ZDK—K. J. McLachlan, Shingler St., Leonathia.  
 3ZDM—R. J. Beames, 502 Ligar St., Ballarat.  
 3ZDR—R. H. Chapman, 15 Corona St., North Balwyn.  
 3ZEE—S. J. Beaton, 101 McKinnon Rd., McKinnon.

- Queensland**  
 4BI—J. Bermingham, 103 Kerry Rd., Coopers Plains.  
 4DP—D. M. Portley (Dr.), 26 Oxide Drive, New Farm, Brisbane.  
 4HF—C. H. Foley, 2 John St., West End, Townsville.  
 4HR—E. W. Beale, 1 Duncan St., Hill End, Brisbane.  
 4WR—R. F. Woolley, 12 Kennedy St., Aeroglen, Cairns.  
 4ZW—B. Whinnell, 104 Cairns St., Cairns.  
 4ZAR—B. P. Ward, 11 Melville Ter., Wynnham.  
**South Australia**  
 5TK—R. P. Tucker, 57 Crown St., Mile End.  
 5WH—W. H. John, 14 Shirley Ave., Woodville West.

- Western Australia**  
 6ZAO—R. G. Smith, Waterloo.  
**Tasmania**  
 7BT—Y. G. Barnes, "Cotterswood," Main Rd., Tarooma.  
**Territories**  
 8AA—W. J. Stewart, Antartic.  
 8AJ—E. L. Lerpiniere, Direction Island, Cocos.

### CHANGES OF ADDRESS

- VK—New South Wales**  
 2MU—L. J. Case, 29 Faraday St., Padstow.  
 2OZ—W. E. Dixon, Mann St., Glenbow.  
 2QI—C. Bowler, M.V. "Century," C/o 25 Castle St., Randwick.

- 2XN—W. E. Gibbins, 52 Churchill Ave., Strathfield.  
 2YAG—G. E. Nixon-Smith, "Banyandah," R.M.B. 288, via Bathurst.  
 2ZAR—R. A. Ridgley, 77 Garfield St., Five Dock.  
 2ZAT—J. Wakefield, 5 Oakes Ave., Eastwood.

### Victoria

- 3LC—A. W. Chandler, 1013 High St., Armadale.  
 3NJ—K. H. Meslin, 35 Peleleigh Gr., Essendon.  
 3QL—S. H. Le Breton, 18 Butcher St., St. Armand, Buxton.  
 3AMU—A. M. Upton, Cambridge St., South Melbourne.  
 3APC—Morabbin & District Radio Club, C/o J. Kemnes, 73 Daly St., Bendigh.  
 3ASC—S. T. Clark, 68 Jensen Rd., East Preston.  
 3ZCP—A. D. Fridgeon, Nepean Highway, Dromana.

### Queensland

- 4KG—K. J. Briggs, C/o R. West, 10 Watson St., Winton Heights, Brisbane.  
 4WB—R. J. Browne, 2 Garden Gr., Dorrington.  
 4TD—T. A. Dale, 34 Prince St., Annerley, Brisbane.

### South Australia

- 5BM—A. R. Matthews, 16 Gurr St., Goodwood.  
 5DR—A. W. Winter, Murray St., Kinnaslea.  
 5ON—C. J. Othens, 23 Main Road, Blackwood Park.  
 5UT—R. Ferwick, C/o S.A.U. Box 207, Fort Augusta.

- 5WU—K. E. Wilson, 5 Reading Rd., Clearview.  
**Western Australia**  
 6AH—A. S. Hill, New Springs Station, via Wiluna.

- 6QO—F. R. Gray, 128 Finders St., Mt. Hawthorn.

### CANCELLED CALL SIGNS

- VK—New South Wales**  
 2ACB—A. C. Bell.  
 2ADW—J. S. Walker.  
 2ZFE—C. C. Frost.  
 2ZBL—W. S. Lane.

### Victoria

- 3VD—C. M. Barnett.  
 3VW—G. Stobie.  
 3ARI—R. M. Tutton.  
 3AUM—A. M. Upton.

### Queensland

- 4IC—J. M. Cohen.  
**South Australia**  
 5ME—S. G. McLenn.  
 5OP—K. N. Theel.  
 5ZAT—G. P. Turk, New VK5TK.  
 5ZAY—G. P. Yelland.  
 5ZBJ—W. H. John, New VK5WH.

### Territories

- 1KM—E. L. Macklin.  
 1HF—J. H. Hicks.  
 1JW—J. L. Ward.  
 1RW—R. C. Widows.  
 1VB—F. A. Van Huisen.

### PERMITS GRANTED FOR TELEVISION EXPERIMENTS

- VK—New South Wales**  
 3ZART—R. A. Ridgley.  
**Victoria**  
 3ASB/T—S. B. Roberts.

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# BRIGHT STAR RADIO

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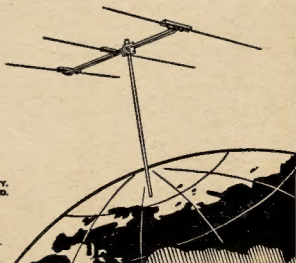
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West Perth, W.A.  
Phone: BA 9486



# CLAMP TUBE MODULATION

BY L. F. BRICE,\* VK5OK

Do you want to go on "fone"? Then here is a modulator that will get you there quickly and cheaply without any fiddling. This should appeal to the new Amateur who, perhaps, has not yet acquired a modulation transformer and the other necessary bits and pieces needed for plate and screen modulation. It might even appeal to some of the c.w. boys who would like a good old "fone" ragchew (although they probably would never admit it).

With a few condensers and resistors, a couple of tubes, a little time and you are on the air.

This modulator offers the following: (1) cheapness, (2) simplicity, (3) will modulate any power, (4) suitable for mobile and portable rigs, and (5) excellent quality (hard to pick from plate modulation).

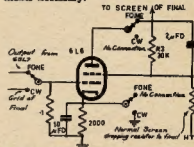
\* 21 Hampton Street, Brooklyn Park, South Aus.

It has one disadvantage (but the importance attached to this rests with the individual). Being an efficiency type of modulation a certain amount of power is lost when the carrier is modulated. The input to the final drops by approximately one-third when the carrier is modulated. Tests have been conducted and this drop in input power represents a drop of  $\frac{1}{3}$  S point in signal strength.

Unlike other forms of Clamp Tube Modulation, the carrier remains constant when modulated and the usual carrier surge in sympathy with the audio is not seen on the S meter of a receiver.

A point to note! Should the clamper tube to be modulated serve as a protective tube on the final in an existing rig, it will cease to function in this manner when used as the modulator, therefore it may be wise to have some other form of protective bias should the grid drive fail.

**Operating:** The transmitter should be tuned and loaded for c.w. conditions. Switch to modulation (input to final will drop by approximately one-third; this can be adjusted by varying the value of R3). No further tuning adjustments necessary.



With audio applied to the grid of the clamp tube, no change in final plate current should occur before 100 per cent. modulation is obtained.

Tests should be conducted to find the optimum setting of the audio gain control.

No difficulty should be experienced with this modulator and it can almost be guaranteed that you will have a "fone" signal on the air first try should you decide to give it a go.

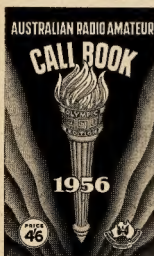
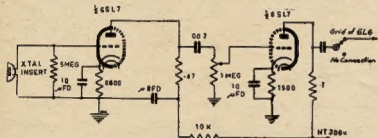
## ANOTHER 2-MX CONVERTER

(Continued from Page 3)

Anyhow, here is what you do tomorrow night. Tune in a medium strength signal (no more than 20 db. over 9) and check L1, L2 and L3 with the tuning wand. Gently approach each coil from the end with each slug in turn. If the signal goes up as the brass slug comes nearer, then the coil is too big. If, however, it is the iron slug that gives you another 8-point, the coil is too small. Fix it. It is better to do one coil at a time and start with L3, then L1 and leave L2 to the last. Then have a go at L5. When you have the coils right, either slug will cause a decrease in signal strength.

Now find one of the real hefty signals and adjust Ln. It is best to pick one of the ear-bashers for this adjustment. Disconnect the supply to the filament of the first valve and, using the tuning wand, adjust Ln until the signal recedes into the murky distance. The adjustments of L1 and Ln may interlock, likewise L5 and L3, so it's as well to check back and forth on them. Righto! Reconnect the filament supply and start listening. You'll hear them—if your beam works—and your location is alright—and there's on!

After about a month's use you will get to the stage where you will think, "She's not bad, but I wonder if I can do a bit better!" This is the stage where you cultivate one of the boys who owns a noise generator. You keep at him until he lends it to you and then you do the whole tuning procedure again, including adjusting the aerial tap and the amount of oscillator injection until the noise figure is as low as you can get it. If it is worse than 5 db. then I've wasted my time; if it is better than 5 db.—well, how's about dropping round and having a go at mine, pal? Cheers, CU on 80!



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the . . .

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- One thousand additions, alterations and deletions since last edition, making over two thousand amendments since the 1954 edition.
- DX Countries, Prefixes and their Zones.

# 1956 REMEMBRANCE DAY CONTEST RESULTS

## CONGRATULATIONS TO WEST AUST.

Last year I referred to the extremely high scores from contestants and commented that it seemed that saturation had been reached. With the VK6 Division winning the trophy for the third time, it is necessary to amend that statement, for their final score this year has reached the highest ever yet attained. Magnificent operating by the top six scorers and the outstanding entry of other logs has shown that careful organisation beforehand can be the deciding factor in winning the trophy.

The colossal score turned in by VK3ATN merits your special attention and congratulations.

The scores of the States were fairly well separated this year, much to the relief of the Committee because each year the entry grows larger. My thanks on your behalf go to the VK3 Division Secretary, Brian Austin (VK3CA), who is not a member of the Committee, but who has hardly missed a session over the past two months; to the new Contest Manager, Rex Richards (VK3DO), for his organising ability and patience during the marathon task of checking; the other members of the Committee, Reg 5RR, Les 5LC and Reg 5QR; and last but far from least, those impressed stalwarts 5PM, 5RG, 5HQ, 5KX, 5KO and 5OR.

As we ran out of midnight oil last year, we had to exist on the calories and fluid provided by our long suffering but good hearted wives.

Since postal arrangements were uncertain, no log was disqualified for late arrival: in point of fact this year seems to be the lowest yet, but the Committee were sorely tried in some cases where scores had not been added and in one instance points had not even been allotted for the contacts! In future no quarter will be given for incorrect logs; this Contest has been going too long for contestants not to know how to fill in their logs.

There were some funny incidents during the 24 hours. Les VK5UX working from his QTH and calling "VK5XU log VK5UX"—one poor VK4 wondered whether he was "contest happy"; a prominent Ballarat v.h.f. Ham who was having fun just prior to the opening trying to get drive to an 807 and loading it into a 68 footer with the far end in the mud; Bill, VK6DX, who worked all night, so he thought, until he looked at his log and found a couple of hours missing.

One sad incident occurred when one of my friends called a certain VK3 Amateur and was treated to a homily on how stupid the whole Contest was and how he didn't care whether it was a Memorial or not, blah! blah! blah!!! I just wondered where his Amateur Radio hobby would have been if those who died for him hadn't answered the call and made the supreme sacrifice. As I felt ashamed that a fellow Amateur could so lower his dignity to make such statements for all to hear (and that included the general public), I am afraid that he was on my calling frequency! I apologised to my friend later.

Propagation conditions were almost ideal for the period and all bands were well populated. VK6, with its greater distances, had the edge on the other States as all bands were easy to work to the Eastern States. An interesting feature to the Committee was the total contacts made by each Division (as per logs) and the average on the basis of 1 point per contact. These figures were particularly interesting and could form the basis for a modification of the scoring system.

There is no doubt that the Contest is becoming more popular each year and I would remind you all that it is for a memorial to those who died that we do contest with each other. Please do not at any time let your striving for place-getting banish from your thoughts that selflessness and honour are the keystones of our grand hobby. For be ye well assured—

"By your acts of grace  
So shall they live."

G. M. Bowen, Chairman, Contest Committee.

### STATE SCORES

| Western Australia |     | Average      |      |
|-------------------|-----|--------------|------|
| VK6FD             | 963 | Average      | 881  |
| 6RU               | 944 | Licencees    | 206  |
| 6HK               | 904 | Logs         | 87   |
| 6MK               | 870 |              |      |
| 6TH               | 843 | Total Points | 1296 |
| 6DX               | 759 |              |      |

| South Australia |     | Average      |     |
|-----------------|-----|--------------|-----|
| VK5EN           | 922 | Average      | 812 |
| 5RG             | 890 | Licencees    | 383 |
| 5WO             | 881 | Logs         | 83  |
| 5JN             | 788 |              |     |
| 5GW             | 752 | Total Points | 988 |
| 5MG             | 641 |              |     |

| New South Wales |     | Average      |      |
|-----------------|-----|--------------|------|
| VK2AMR          | 841 | Average      | 719  |
| 2AHH            | 808 | Licencees    | 1112 |
| 2RS             | 803 | Logs         | 54   |
| 1PM             | 782 |              |      |
| 2BO             | 569 | Total Points | 755  |
| 2PN             | 509 |              |      |

| Tasmania |     | Average      |     |
|----------|-----|--------------|-----|
| VK7AI    | 682 | Average      | 552 |
| 7LJ      | 597 | Licencees    | 124 |
| 7BR      | 532 | Logs         | 41  |
| 7DR      | 519 |              |     |
| 7AB      | 512 | Total Points | 734 |
| 7YY      | 467 |              |     |

| Victoria |      | Average      |      |
|----------|------|--------------|------|
| VK3ATN   | 1147 | Average      | 671  |
| 3ADW     | 804  | Licencees    | 1058 |
| 3HG      | 623  | Logs         | 73   |
| 3ALZ     | 518  |              |      |
| 3DC      | 508  | Total Points | 717  |
| 3ZU      | 426  |              |      |

| New Guinea |     | Average      |     |
|------------|-----|--------------|-----|
| VK9DB      | 959 | Average      | 437 |
| 9XK        | 480 | Licencees    | 38  |
| 9FN        | 454 | Logs         | 5   |
| 9WK        | 194 | Total Points | 495 |
| 9OQ        | 109 |              |     |

| Queensland |     | Average      |     |
|------------|-----|--------------|-----|
| VK4CC      | 840 | Average      | 447 |
| 4NT        | 529 | Licencees    | 335 |
| 4MO        | 447 | Logs         | 35  |
| 4DI        | 302 |              |     |
| 4JF        | 283 | Total Points | 493 |
| 4OV        | 278 |              |     |

| Antarctica |     | Average   |     |
|------------|-----|-----------|-----|
| VK1IJ      | 978 | Average   | 978 |
| 1GA        | 12  | Licencees | 12  |

### AWARDS

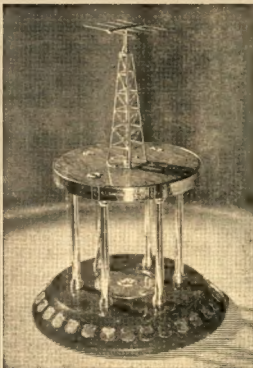
| Open  |      | Average   |      |
|-------|------|-----------|------|
| VK1IJ | 978  | Average   | 978  |
| 2AHH  | 808  | Licencees | 1112 |
| 3ATN  | 1147 | Logs      | 54   |
| 4CC   | 840  |           |      |
| 5RG   | 890  |           |      |
| 6RU   | 944  |           |      |
| 7LJ   | 597  |           |      |
| 9XK   | 480  |           |      |
| 2RS*  | 803  |           |      |

\* Special Award.

| Phone  |     | Average   |     |
|--------|-----|-----------|-----|
| VK2AMR | 841 | Average   | 841 |
| 3ZU    | 426 | Licencees | 426 |
| 4MO    | 447 | Logs      | 447 |
| 5EN    | 922 |           |     |
| 6MK    | 870 |           |     |
| 7AI    | 682 |           |     |
| 9DB    | 959 |           |     |

| C.w.  |     | Average   |     |
|-------|-----|-----------|-----|
| VK2GW | 436 | Average   | 436 |
| 3AHH  | 320 | Licencees | 320 |
| 4DI   | 302 | Logs      | 302 |
| 5MD   | 269 |           |     |
| 5TL*  | 95  |           |     |
| 8EZ   | 145 |           |     |
| 7CH   | 399 |           |     |

\* Northern Territory.



Remembrance Day Trophy won by West. Australia

Listeners  
A. Stebbing 392

# OTHER LOGS

## NEW SOUTH WALES

|       |     |        |     |        |    |
|-------|-----|--------|-----|--------|----|
| VK2EL | 503 | VK2HAI | 135 | VK2VTF | 82 |
| 2EL   | 420 | 2ZS    | 113 | 2VN    | 58 |
| 2AWN  | 430 | 2ANO   | 113 | 2ART   | 55 |
| 2OL   | 420 | 2AGJ   | 112 | 2ATJ   | 49 |
| 2IS   | 398 | 2APQ   | 111 | 2SJ    | 49 |
| 2APP  | 398 | 2ANTU  | 102 | 2SL    | 44 |
| 2AHP  | 255 | 2QZ    | 88  | 2ADL   | 44 |
| 2ARV  | 250 | 2PL    | 83  | 2ADZ   | 43 |
| 2JR   | 254 | 2ACD   | 77  | 2AIC   | 36 |
| 2CT   | 223 | 2AVT   | 75  | 2AIV   | 35 |
| 2AQ   | 230 | 2RA    | 75  | 2AOR   | 35 |
| 2AKV  | 211 | 2AAJ   | 74  | 2VC    | 32 |
| 2ARV  | 207 | 2RG    | 67  | 2EZ    | 17 |
| 2AJO  | 193 | 2AFA   | 67  | 2AWX   | 15 |
| 2AJT  | 181 | 2PV    | 65  | 2CS    | 14 |
| 2ATL  | 147 |        |     | 2EO/P  | 10 |

## REJECTED LOGS

VK3YJ—No contact times shown.  
2EN—No "sent" serial number.  
2ACI—No serial number.

|       |     |       |     |       |    |
|-------|-----|-------|-----|-------|----|
| VK3IB | 405 | VK3YS | 187 | VK3CX | 86 |
| 3ATV  | 400 | 3ARL  | 144 | 3AYM  | 54 |
| 3AGD  | 381 | 3TR   | 140 | 3AKW  | 50 |
| 3ATV  | 381 | 3JC   | 157 | 3DV   | 45 |
| 32A   | 368 | 3AFF  | 154 | 3H    | 41 |
| 3TG   | 352 | 3DW   | 152 | 3OH   | 38 |
| 3TE   | 312 | 3CK   | 148 | 3ARM  | 31 |
| 3FY   | 312 | 3IC   | 141 | 3ZZ   | 31 |
| 3XB   | 299 | 3RU   | 139 | 3PG   | 31 |
| 3ZO   | 294 | 3ADU  | 131 | 3AFP  | 29 |
| 3VP   | 252 | 3ABT  | 89  | 3ARV  | 29 |
| 3KC   | 255 | 3AFJ  | 88  | 3UM   | 28 |
| 3ANO  | 240 | 3XN   | 75  | 3CP   | 25 |
| 3ARP  | 239 | 3HL   | 93  | 3ASB  | 21 |
| 3DU   | 237 | 3GZ   | 79  | 3AWZ  | 21 |
| 3AGT  | 250 | 3XU   | 79  | 3XZ   | 20 |
| 3ARV  | 197 | 3XB   | 67  | 3LV   | 18 |
| 3ARV  | 196 | 3AXU  | 73  | 3JO   | 18 |
| 3VN   | 192 | 3OE   | 71  | 3TI   | 17 |
| 3YQ   | 188 | 3AXW  | 70  | 3ALD  | 16 |
| 3ATK  | 180 | 3WY   | 70  | 3ZS   | 14 |
| 3ZM   | 169 | 3AIM  | 69  | 3OV   | 10 |
|       |     | 3AZS  | 65  |       |    |

Check Log: VK3JE.

## QUEENSLAND

|       |     |       |    |       |    |
|-------|-----|-------|----|-------|----|
| VK4DK | 183 | VK4CN | 71 | VK4EC | 28 |
| 4BK   | 180 | 4KC   | 51 | 4BC   | 28 |
| 4JE   | 145 | 4PW   | 80 | 4LR   | 18 |
| 4VS   | 145 | 4XJ   | 48 | 4AF   | 15 |
| 4BT   | 140 | 4ZJ   | 42 | 4ZM   | 15 |
| 4HR   | 93  | 4GG   | 37 | 4XL   | 13 |
| 4ZP   | 90  | 4LE   | 35 | 4ZZ   | 9  |
| 4OR   | 83  | 4EA   | 33 | 4XA   | 8  |
| 4EZ   | 81  | 4RW   | 34 | 4PR   | 8  |
| 4TF   | 74  |       |    | 4PA   | 7  |

Check Log: VK4BW.

## SOUTH AUSTRALIA

|       |     |       |     |       |     |
|-------|-----|-------|-----|-------|-----|
| VK4AB | 530 | VK4KM | 314 | VK4LC | 234 |
| 4AP   | 408 | 4TK   | 314 | 4FF   | 221 |
| 4PV   | 403 | 4BO   | 313 | 4PQ   | 204 |
| 4QW   | 376 | 4BBS  | 297 | 4KU   | 186 |
| 4DK   | 369 | 4JO   | 275 | 4PM   | 170 |
| 4ZB   | 363 | 4AX   | 273 | 4PJ   | 151 |
| 4ZC   | 353 | 4JC   | 267 | 4ZC   | 132 |
| 4KC   | 338 | 4BT   | 261 | 4BR   | 127 |
| 4SF   | 328 | 4KN   | 238 | 4XU   | 109 |
| 4BF   | 319 | 4FM   | 243 | 4LD   | 96  |

## SOUTH AUSTRALIA (Continued)

|       |    |       |    |       |    |
|-------|----|-------|----|-------|----|
| VK5CH | 82 | VK5KY | 50 | VK5XA | 22 |
| 5HL   | 81 | 5IG   | 47 | 5LE   | 22 |
| 5DI   | 87 | 5CO   | 47 | 5DG   | 24 |
| 5CK   | 79 | 5CF   | 46 | 5EA   | 24 |
| 5IC   | 78 | 5IIG  | 46 | 5IW   | 23 |
| 5OR   | 78 | 5UP   | 46 | 5LL   | 20 |
| 5JC   | 77 | 5WM   | 46 | 5PT   | 19 |
| 5JR   | 67 | 5OF   | 39 | 5PU   | 16 |
| 5KA   | 66 | 5C    | 39 | 5CO   | 15 |
| 5WI   | 63 | 5PS   | 39 | 5OD   | 15 |
| 5RI   | 57 | 5TK   | 38 | 5ZY   | 16 |
| 5CV   | 55 | 5TV   | 37 | 5DG   | 14 |
| 5ON   | 53 | 5HW   | 36 | 5LS   | 14 |
| 5HM   | 53 | 5AV   | 35 | 5XL   | 9  |
| 5EI   | 51 | 5FD   | 33 | 5CA   | 13 |

Check Log: VK5SG.

## WESTERN AUSTRALIA

|       |     |       |    |       |    |
|-------|-----|-------|----|-------|----|
| VK6BE | 497 | VK6WI | 27 | VK6JA | 19 |
| 6KO   | 294 | 6PH   | 26 | 6RO   | 18 |
| 6TB   | 249 | 6E    | 25 | 6RD   | 18 |
| 6YK   | 210 | 6WZ   | 25 | 6RS   | 17 |
| 6LU   | 170 | 6HR   | 25 | 6BG   | 17 |
| 6AF*  | 150 | 6AC   | 25 | 6HA   | 17 |
| 6AJ*  | 139 | 6EW   | 25 | 6IC   | 17 |
| 6GY   | 84  | 6WH   | 25 | 6TK   | 17 |
| 6CE   | 76  | 6PL   | 24 | 6WR   | 17 |
| 6CE   | 69  | 6LME  | 24 | 6TF   | 16 |
| 6ZJ   | 67  | 6XG   | 23 | 6TA   | 16 |
| 6UP   | 65  | 6GZ   | 23 | 6KU   | 16 |
| 6AI   | 61  | 6CW   | 23 | 6MB/P | 15 |
| 6GU   | 54  | 6EL   | 23 | 6ZL   | 15 |
| 6TK   | 52  | 6EK   | 23 | 6LB   | 15 |
| 6DJ   | 51  | 6AP   | 23 | 6BR   | 15 |
| 6BE   | 50  | 6FR   | 23 | 6WT   | 15 |
| 6RW   | 46  | 6CK   | 23 | 6TO   | 14 |
| 6BO   | 45  | 6OR   | 23 | 6GH   | 14 |
| 6EL   | 44  | 6EJ   | 23 | 6VM   | 14 |
| 6FB   | 44  | 6LL   | 23 | 6TP   | 13 |
| 6MO   | 44  | 6WJ   | 23 | 6JN   | 13 |
| 6TL   | 40  | 6GM   | 21 | 6CM/P | 13 |
| 6AL   | 39  | 6LH   | 21 | 6GB   | 13 |
| 6SV   | 38  | 6EC   | 20 | 6WM   | 13 |
| 6WS   | 35  | 6PT   | 20 | 6EP   | 11 |
| 6L/P  | 30  | 6WG   | 20 | 6TB   | 11 |
| 6W    | 30  | 6AW   | 19 | 6TR   | 10 |
| 6CC   | 29  | 6CP   | 19 | 6MB/P | 9  |
| 6NF   | 26  | 6AE/P | 18 | 6TK/P | 8  |

\* Log A.  
† Log B.  
Check Log: VK6PL 743.

## TASMANIA

|       |     |       |    |       |    |
|-------|-----|-------|----|-------|----|
| VK7KA | 453 | VK7WA | 83 | VK7OM | 31 |
| 7ZP   | 404 | 7LS   | 78 | 7LK   | 28 |
| 7TO   | 396 | 7TR   | 73 | 7BJ   | 24 |
| 7RL   | 378 | 7AL   | 78 | 7RK   | 23 |
| 7GM   | 359 | 7BN   | 69 | 7DJ   | 20 |
| 7AC/P | 378 | 7CK   | 69 | 7W    | 21 |
| 7SD   | 328 | 7LS   | 63 | 7LE   | 17 |
| 7CA   | 180 | 7WN   | 47 | 7KL   | 17 |
| 7EM   | 143 | 7PF   | 46 | 7RM   | 16 |
| 7BY   | 136 | 7AX   | 35 | 7DS   | 15 |
| 7SF   | 118 | 7JD   | 35 | 7DW   | 15 |
|       |     | 7FJ   | 33 |       |    |

## LISTENERS

|                   |     |                |     |
|-------------------|-----|----------------|-----|
| Rankin, D. H.     | 377 | Dash, N. L.    | 257 |
| Price, F. H.      | 374 | Woodman, I. R. | 215 |
| Campbell, J. A.   | 334 | Dunstan, R.    | 149 |
| de Balfour, R. A. | 319 | Sherrin, G. E. | 139 |
| Thorpe, C. H.     | 285 | Jenkins, D. B. | 10  |
| Devey, W.         | 286 |                |     |

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Prosperous New Year

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# *A Merry Christmas and A Happy New Year*

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This Christmas Day may blessings come  
And may good luck, good health, good cheer  
Be guests of yours for all the year.



FROM

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45-56

# FIFTY-SIX MEGACYCLES AND ABOVE

## NEW SOUTH WALES

The 2 mxx spring field day was held in beautiful weather and quite a number of home and portable stations took part. Messages were originated and relayed. A. A. 21st Oct., '55. Logs have been handed to the contest managers and at the time of writing results are not yet to hand.

Each Wednesday preceding the monthly meeting night of the V.h.f. Group has been reserved for nocturnal hidden tx hunts which commence at 8 p.m. and terminate at 8.30 p.m. Results are given over VK3WT Sunday evening b.c.

On 21st Oct. the station of Morris 2JHL, assisted by Chas 2JNP, was given the job of going to the 1000 mxx stations and finding them for themselves in the scrub, but were eventually found in the Forestville district. The first to be seen was Dave 2AWZ, closely followed by John 2ADY and Mick 2JZV. Several others arrived before time had expired, but Bob 2QA and co-pilot Peter 2APQ needed final instructions to find the location. Hot dogs and cups were then indulged in and a good night had by all.

Several visitors made themselves acquainted with the V.h.f. Group at our usual monthly meeting held on Wednesday night, 2nd Nov. '55. Suggestion of standing orders to enable the well attended meeting to listen to an interesting programme were made and to the Group then heard Mr. Gordon Harne, of S.T.C., give a talk on Pulse Rate Terrain Indicators, which Mr. Cox assisted with block diagrams. Also displayed were examples of tx's, rx's meters and antennae. A vote of thanks was carried by acclamation in the usual way, after Arthur 2JZB kindly thanked the lecturer for his instruction and entertainment.

The December meeting will manifest itself by having a "Hunt-a-Rite" which will be conducted by Ted 2JXX on behalf of the Group.

From the northern area we are informed by Ron that RGV, 2YU and S 2AJ were the first to arrive at the Blackfella Field Day. Visitors to the area were 42AA, Mick and Ross working mobile with a 32C, Geoff 2YU and 42AA, John 2JAN, 2JANU out of the box with tx trouble. The Tamworth boys 2APF, 31Y, 22AD and 2ATD are working 2 mxx. Both 2JANU and RGV were on the Spring Field Day and were able to clear all messages. Frank 2APF reports that 22AP of Warwick will be running tone 10 minutes each night with beam south. Frank now has a xial locked converter, also 2KQ at Toronto. 2JANU is holding nightly and with 2JG at 100 hours, also 2YU is receiving Roy well on phone. Noted with interest 2JCB is listed as new call in Scene.

The last 2JZB is informed that 2AJZRU, on 801 Mc., has been heard calling CQ—2AFM.

## VICTORIA

We had a very pleasant evening for the last fox hunt but strangely, we didn't have nearly as big a turn-out as on some of those freezing cold nights during the winter months. However there were enough there to make the good hunt, seven car loads turned up with that vicious blood type of blood in their veins and all they wanted was to see 2JLM. The chase that took them round the suburbs of Toorak, Kensington, Footscray and through the streets of the city. That band of a fox slowly traversed up and down the streets of the city, this made things really tough with all the tall buildings. Then he cut the tone and used speech, but it was difficult to hear. Every one was very pleased to hear the familiar voice of our control station, Bob 2OV, back on the job again.

The final location was held at the home of a member of the Institute and was a D.C.P. class student, Bert Stebbings, and we offer our sincere thanks to Bert and his XYL, Phyl, for opening their home to the Group. The first to be seen was Roy 2A9Y. Second place went to Tom 2A9G and third place to Eric 2A9D. Make sure to come along to the Olympic Fox Hunt which is held on December 13. The December hunt, which winds up the year, is the occasion when the fox uses every fair or foul method to get out of the hands of the hounds, a hunt in which anything can happen, and you can be certain that the fox will make sure it does.

At the V.h.f. Group meeting, Mr. D. F. Watson, Group Engineer of the P.M.G.'s Circuit Laboratories, gave a general lecture on the proper use of relays. He brought along many examples of the P.M.G. type of relays giving full details on how to determine whether the power, minimum voltage, and current are of any constructional details which determine the speed and load capacities of the various relays. He answered many questions as he went along and concluded by giving a general pamphlet containing a description of all types

of service relays to each member present. A vote of thanks was passed and members warmly applauded, showing their appreciation of Mr. Watson's very interesting lecture.

During the discussion of the v.h.f. meeting, it was decided to hold field days during the forthcoming summer season. The first one will be held on Sunday the 13th and will be followed by field days on the third Sunday in Feb., Mar., and Apr. These latter dates for 1957 are for the time being only, pending the date to be set for the National Field Day for 1957. The scoring will be the same as last year, that is, one point per mile to be arranged during the 5/5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.

SBC says 2ATN had a two-way phone contact on 56 Mc on 4th Nov. This is possibly the first interstate contact on 56 Mc since the allocation of the new band. Distance approx 150 miles. Equipment used: 5DC—50 to 200/70/40, 4 m. w.s. beam 60 ft. ul. cascade converter: 2ATN used 90w. to 625B, 6 ft. beam 60 ft. ul. stage ant. converter.

News of 2 mxx activity 2ATN at Warracknabeal is using 80w to Q2Q6/40 with 5/5 beam, 144/73 Mc. 2JNF at Vines using 50w to Q2Q26/40, 5/5 beam, freq. 144/73 Mc. is experimenting with long vags. 2JBC at Renmark using 7w. to Q2Q38/40, 16 ft. phased array, freq. 144/13 Mc. 2JZC at Ouyen 25w. to 2JY 718B, 5/5 beam 40 ft. high, freq. 144/16 Mc. is building up Q2Q76/40 rig, hopes to have it going soon. 2KAW at Penola using 50w. to 2JY 718B, 5/5 beam 30 ft. high, has c.c. converter, freq. 144/81 Mc. and is hoping to get his beam up higher. 2JCE at Birchlip using about 20w. 2JZJ, 2JZK, with 5/5 beam 50 ft. high, freq. 144/17 Mc.

2JAB although busy on other bands chasing the DX, has a 52B and is building 100w. final, 20 ft. beam 5/5 alongside 5/5, 100 ft. high, c.c. converter. 2ATN has moved his location and is using about 90w. to 625B shortly to be changed to Q2Q6/40, freq. 144/73 Mc. and using 15/15 2 long vags 30 ft. beams stacked two w's apart and 85 ft. high. Ray 2ATN, of Birchlip, has been breaking through to Melbourne recently with very good results. 2JZJ, 2JZK, 2JZL and 2JALY. He will be on the air looking for Melbourne contacts each evening. Roy 2JZB is using 50w. to 625B, 5/5 beam 50 ft. high, freq. 144/81 Mc. With all the above activity you are assured of contacts if you direct your beam NW. of Melbourne.—Phyl Moccu.

## SOUTH AUSTRALIA

The oncoming Geophysical Year activities should not be overlooked by the v.h.f. boys, who are asked to co-operate to the best of their listening or operating points. A lot of very interesting and helpful information will be obtained as a result of this, and although the little bit each of us may do—for few will be able to man their outfits full-time—may seem insignificant, it is all to be collected to obtain a full picture of the varying propagation conditions.

The Manufacturers' Exhibition next year will include a stand run by our Division and one of the many items required will be v.h.f. links to them to enable DX to be worked. It will be appreciated that the noise level for the working at the grounds will be poor, so all you types that have real good locations and can shoot a relay to them now, now, now, the time to speak up. Don't mind and 5/5 MC will be pleased to hear from you, for they have a lot to organise and want many helpers, so v.h.f. guys, this is your chance. 2JZB and the movement it will break down the time each link would be required to operate.

Nothing further heard from 2JAGZ and their proposal for 2 mxx to Adelaide, will keep you posted on this as information comes to hand. Listen on 144.58 from time to time and I'll pass the news on to you.

2JALZ will be on 2 mxx again soon, as he has re-built his rig and now has a Q2Q72 in the final, which is a new design. 2JZB has a new shiny 625B ready to use on 2 mxx. We will all be interested to hear you fellows, who come to the bend. Bill 2JZK has heard quite a bit lately, a very fine sig too, his antenna is perched up on a tower that is a v.h.f. man's dream. Neil 2JZW has had some trouble with his final (haven't we all) but he has straightened it all out and now all happy again.

George 2JSG and Reg 2JQR have had some fun and 3 x 8 signals across town on 1 mxx by merely modulating the oscillator train of their converters. It is that for Ben power? 2JMY and Reg continue to play the 2 mxx and 1 mxx couldn't tell you a winner on any of the games. I've heard you know chess—they may be still playing. My own activities have been very quiet 2 mxx this month, mainly confined to doing a

relay of W.I.A. session on Sunday a.m. With the rest of the weeks devoted to getting the tri-band beam going. Yes it works, so must get back on 2 mxx again.—SEF

## WESTERN AUSTRALIA

The monthly meeting of the V.h.f. Group was held at the GTH of Syd 68J on Sat., Oct. 1st. After welcoming visitors, among whom was Keith 2ZSW, whose ship was in port, the meeting settled down to serious business, consultations and equipment discussions took the remainder of an enjoyable evening, concluding with the usual very good supper at a late hour.

Sat. night, 20th Oct., saw another Fox Hunt in progress. The job of finding their opponents was undertaken by 62ZJ and 62ZK. 62ZK, this time, was really good, right on the edge of the Swan River, only three made the grade, these being 68J, 68K, and 68D in that order. Never in so short a space of time have so many been fooled by such a small stretch of water. Anyhow, everybody had a good time and that was the main thing.

62ZAZ has conducted tests from Wagin over a path of about 150 miles with some success. Activity on the bands may increase with the advent of warmer weather.

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 Awards Manager: G. S. Weynton, VK3XU,  
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## NEW SOUTH WALES

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 Correspondence Secretary: H. King, VK3ASU.  
 Zone Correspondent: North Coast and Table-  
 lands: M. J. King, VK3YX.  
 Meeting Night: Fourth Friday of each month at  
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 Divisional Sub-Editor: J. M. Bourke, VK3EL,  
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QSL Bureau, J. B. Corbin, VK3YC, Box 1734,  
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 2AOR, 10 Kahlaba Rd., Highlands, via Adams-  
 town, Coalfields and Lakes: H. Hawkins, VK-  
 2YL, c/o Comfort Ave. Cusack, Western, W.  
 BULL, VK3WH, c/o Camblawa, Forbes, South  
 Coast & Southern: E. Fisher, VK3JF, 1 Ordish  
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 VK3AJO, Wallace St., Coolamon; Tamworth:  
 J. H. Fowler, Thompson Crescent, Tam-  
 worth.

## VICTORIA

President: G. Dennis, VK3TF.  
 Secretary: C. Ball, VK3YU.  
 Administrative Secretary: Mrs. May, C.O.H.  
 House, 181 Queen St., Melbourne.  
 Meeting Night: First Friday of each month  
 at the Radio Society, Royal Melbourne Techni-  
 cal College.

## FEDERAL

### VKs (ZERO)

Following the allocation of the prefix VKI  
 for those Amateur Stations operating in the  
 Australian Capital Territory, a further change  
 has now taken place with regard to those sta-  
 tions which operate from the Antarctica.

The prefix of VKI (for Antarctica) has been  
 withdrawn and in future VK0 (zero) will be  
 allocated to them.

It is expected that the change over will take  
 place when relief parties arrive at the various  
 bases towards the end of the year.

## EMERGENCY CO-OPERATION IN

### GREAT BRITAIN

In the November issue mention was made of  
 amendments being propounded for Amateurs  
 in Great Britain. The "Amateur (Sound)  
 Licence" has been varied and the following new  
 Clause 1 (1) (c) has been added:-

"To use the Station, as part of the self-  
 training of the Licensee in communication by  
 wireless telegraphy during disaster relief opera-  
 tions or during any exercise relating to such  
 operations conducted by the British Red Cross  
 Society, for the purpose of sending to other  
 Amateur Stations such messages as the Licensee  
 may be requested to send, or to receive, or  
 of receiving from any other Amateur Station  
 such messages as the person licensed to use  
 the Station may be requested to receive by the  
 said Society."

This official recognition of Amateurs and their  
 value in emergencies is most gratifying and  
 the B.S.G.S. is to be congratulated on its fine  
 work.

Divisional Sub-Editor: Phyl Moncur, 235 Union  
 Road, Ascot Vale.  
 QSL Bureau: R. A. Bowrie, VK3DU, Box  
 2811W, G.P.O. Melbourne, C.I. Vic.

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 Kinsella, VK3AKW, Magdala, Leubeck; South  
 Western: W. W. Winder, 65 Cranley St., Western  
 Suburbs, and W. Zimmer, VK3AWZ, 70 Skene  
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 VK3ALE, 17 Orr St., Shepparton, Far North  
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 Millura, Eastern: J. Spork, VK3AJK, 20 Mar-  
 shall Ave., Moe, North Western: C. Cass,  
 VK3ACE, Cumming Ave., Birchbark.

## QUEENSLAND

President Frank Bond, VK3EM.  
 Secretary: W. J. Raifer, VK3FR, Box 6337,  
 G.P.O., Brisbane.  
 Meeting Night: Fourth Friday in each month at  
 the State Service Union Rooms, Elizabeth  
 Street, Brisbane.

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 and W. J. Raifer, VK3FR.  
 QSL Bureau: Inwards:- J. F. W. VK3AF, Wanda  
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 Glasgow, VK3KJ, 10 North St., Maryborough;  
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 St., Stuart, Townsville.

## SOUTH AUSTRALIA

President W. J. Bulling, VK3KX.  
 Secretary: B. W. Austin, VK3KA, Box 1334K,  
 G.P.O., Adelaide. Telephone: UX 3631.  
 Meeting Night: Second Tuesday of each month  
 at 17 Waymouth St., Adelaide.

being stamped "Saigon." No evidence was  
 that the letter had been routed as addressed was  
 forthcoming. It appears to be a mistake as to  
 whether the postal authorities forward the let-  
 ters by the route requested.

Col. VK3LE also advises that VK3IR on Cocos  
 informed him that his call sign had been chan-  
 ged to VK3AJ. The change, while making for  
 uniformity, is unfortunate because VK3IR  
 had sent him a batch of cards printed with  
 the old call on them.

Due to the death of old-timer, VE3QB, who  
 managed the QSL Bureau for many years,  
 the address of the VE3 Bureau has been changed  
 to 31 Sylvia Crescent, Hamilton, Ontario, Can-  
 ada. The new manager is Les Whitham, VE3QE.  
 The R.E.P. advise that the correct address for  
 that body is: Redo Dos Emissores Portugueses,  
 Rua D. Pedro V, 7-4, Lisbon, Portugal.

Dig through your logs chaps and see if you  
 have sent a card to AASA, Raige Helgesen,  
 Box 70, Tomaberg, Norway. Helge is eagerly  
 awaiting a card from the many VK stations  
 who called at many of our ports during 1950  
 enroute to Antarctica.

An interesting QSL addressed to BERS136, was  
 from an aircraft mobile station, operated by  
 Jack Wanner (now W0R1J), under the call  
 sign W0R1J. The signal was received at the  
 signal from the aircraft mobile on 14 Mc., the  
 plane was flying at 8500 feet between Darwin  
 and Melbourne.

Bill Stiller (VK3EG, ex-VK1BS and VK1EG)  
 will be in Melbourne on P.M.G. duties for about  
 a month covering the Olympic period. Hopes  
 to stand the show will wish to see his old  
 friends.

The Radio Club of Chile advise that due to  
 modification of the number of all districts in  
 Chile, it has been necessary to amend the  
 conditions of their W.A.C.E. Award. As from  
 July 1, 1956, the award has been created  
 in lieu of the existing seven. The present dis-  
 trict CE1 to CE7 remain practically as before,  
 but additional areas are CE8 Magallanes and  
 Tierra del Fuego, CE9 Chilean Stations to the  
 Antarctic continent, and CE0 Easter Island. The  
 new conditions for the Award provide that eight  
 QSLs per communication with eight of the  
 ten districts in any of the bands, must be sub-  
 mitted. The direct sending of the QSLs can be  
 submitted by the club or body affiliated with  
 the I.A.R.U. This means that it is only  
 necessary to send your cards to the W.I.A.  
 Awards Manager, who will return the neces-  
 sary certification to forward to the Radio  
 Club of Chile.

Letters from the rival societies in Sweden—  
 the S.S.A. and the S.A.R.C.—seem to indicate

Divisional Sub-Editor: E. C. Daw, VK3EP, P.O.  
 Box 44, Gawler, S.A.  
 QSL Bureau: Glen Luxton, VK3HX, 21 Belair  
 Rd., West Maitland, S.A. (Inwards and Out-  
 wards).

## WESTERN AUSTRALIA

President: F. A. T. Tredrea, VK3PT.  
 Secretary: J. Mead, VK3JL, Box N103, G.P.O.,  
 Perth, W.A.  
 Meeting Place: Perth Technical College Annex,  
 Monmouth St., Perth, W.A.  
 Meeting Night: Third Tuesday of the month.  
 Divisional Sub-Editor: E. J. R. Cowles, VK3EL,  
 P.O. Box 11, Beaufort, W.A.  
 QSL Bureau: Jim Rumble, VK3RU, Box 7318,  
 G.P.O., Perth, W.A. (Inwards and Outwards).

## TASMANIA

President: F. J. Evans, VK3TF.  
 Secretary: M. Rutherford, VK3HR, Box 5712,  
 G.P.O. Hobart.  
 Meeting Night: First Wednesday of each month  
 at the W.A. Club Room, 141 Liverpool St.,  
 Hobart.  
 Divisional Sub-Editors: H. J. Bracken, VK3HR,  
 c/o P.O. Bronte Park.  
 QSL Bureau: E. J. Johnston, VK3RK, 14 Tower  
 Rd., Newtown.  
 Zone Correspondents: Northern: K. J. Briggs,  
 c/o P.O. Bronte Park; Southern: North  
 Western: S. H. Pattison, VK3UW, 28 Mark  
 St., Burnie, Tas.

## FAPUA-NEW GUINEA

President: J. M. Young, C/P. & T. Dept.  
 Port Moresby.  
 Divisional Sub-Editor: To be appointed.  
 QSL Bureau: J. M. Young, C/P. & T. Dept.,  
 Commonwealth Dept. Works, Port Moresby.

An unfortunate cleavage in that country. The  
 handling of cards seems to be the main bone  
 of contention. Those who definitely state they  
 will not handle or deliver cards to members  
 of the S.A.R.C., while this latter body, whose  
 cards are issued by J. Buried, Sweden, deliver  
 cards to all Amateurs who letters irrespective  
 of their membership in either society. They  
 claim that big packages of cards dating back to  
 1942 are lying in several S.A.R.C. buildings.  
 We hope this unfortunate schism is quickly  
 healed.

The correct address for cards for Amateurs  
 in the Federal Capital Territory (now VKs) is:  
 Bud Pounsett, Box 56, Kingston, Canberra. It  
 is as well to include the word "Canberra" in  
 the address. The letters are sent to the  
 Kingston, A.C.T., were tried at every Kingston  
 in the Commonwealth—except Kingston, A.C.T.

Ray Jones, VK3RJ, Federal QSL Manager.

## NEW SOUTH WALES

Approximately 70 members were present at  
 the October meeting of the New South Wales  
 Division, held as usual on the fourth Friday of  
 the month, at the City House. The meeting heard  
 reports from Norm Burton (deputising for  
 Horrie 2FA) and Percie 3APQ on the activities  
 of the Divisional B.C.T./T.V.I. Committee. Al-  
 though no T.V.I. Amateurs have yet been made,  
 Committees have been kept busy with tests  
 conducted on various receivers and transmitters  
 at the City House. The meeting heard that  
 would welcome any members willing to assist  
 the Committees with this interesting study. Don  
 Jones has agreed to assist in "clearing house"  
 of the U.K. and U.S.A. demonstrated his "personal  
 portable" t.v. rx and answered questions on  
 many aspects of his trip.

Arrangements have been concluded for the  
 issue of car badges modelled on the Institute  
 badge and orders are now being accepted by  
 the Secretary.

Discussion took place on the important ques-  
 tion of the growing menace of commercial use  
 of the exclusive Amateur bands. Noel 2AGH  
 has agreed to take decisions on "clearing house"  
 for reports on commercial interference. Noel  
 requests that all who are able should supply  
 him with information as to frequency, call signs  
 and times of operation of non-Amateur stations  
 operating in the exclusive Amateur bands. Al-  
 though little can be done with these stations  
 which are causing such a nuisance, there are in-  
 stances of harmonic and parasitic radiations  
 from stations much nearer home, especially be-  
 tween 1.8 and 2.0 Mc. It is hoped that the  
 you will be no stranger to this problem and  
 the gradual insurgence into the 14 Mc. band  
 promises to reach similar proportions, unless  
 action is taken promptly. Noel's address is:

## FEDERAL QSL BUREAU

Amateurs will be pleased to learn of the  
 granting of the Polar Medal to the following  
 Amateurs who in some cases served two seasons  
 in the Antarctic: Eric Macklin (VK1EM), Jack  
 Riddell (VK1RW), John Wilson (VK1RA), and  
 Hugh O'Shaughnessy (VK1AW). The receipt of  
 the investiture will be made by H.R.H. The  
 Duke of Edinburgh about Dec. 5. Last year  
 H.R.H. visited Australia, and it is foreseen that  
 similar honour. Another Antarctic Amateur  
 to receive an honour of a different class was  
 Eric the Antarctic Explorer, who on 12th Novem-  
 ber, qualified for the Matrimonial Medal.

Further again to recent purs the correct  
 addressing of cards to reach SWBAA, Col. Wright  
 advances a word of warning. He is forewarned by  
 Alan VK3AHM does not always ensure delivery.  
 Col forwarded intact a letter to SWBAA that he  
 had sent addressed via Hong Kong and Canton,  
 but which had been returned undeliverable.

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### HUNTER BRANCH

The University of Technology was the location of the October meeting of the Hunter Branch. One film on the construction and testing of TV antennae was shown, following which Bill EKT declared the meeting open and the minutes were read and business dealt with. The affairs of the Blackalls Convention were finalised and the meeting decided that the 1957 Convention would be held at Blackalls Park on October 5 and 6, and that Council be asked to hold this date for the Hunter Branch.

Jim McKay lectured on the construction and erection of antenna masts and gave the meeting some interesting hints on guying and anchoring the masts. The 34 members present showed their interest by the number of questions asked.

Following Jim's lecture two more films, one in colour, were shown, again dealing with TV antennae and their construction and testing methods. The meeting closed with the usual ragchew.

Mr. Stewart, father of Ron 2ASJ, has been very ill the last few weeks and all Branch members wish him a speedy recovery. The usual Xmas Party of the Branch will not be held this year and a present will be purchased for each child of each member and will be distributed by the Social Committee at an appropriate time. This will take the form of a personal visit and ragchew. Stan 2ZDL, Les 3ZCB, Dave 1RZ, Doug 2ADS and Les 2AGH have all been active on 2 mcs. Rodney 3CS active at night on 7 and 14 Mc.

Listen for 2AWX, Monday nights, on 14 Mc. at 8 p.m. for official Hunter Branch news.

### UPPER HUNTER GROUP

Note with interest that another Ham has appeared in the way of 2ZCB at Scene and to date have not had the opportunity of calling on this gentleman—not 27 miles away. Have no news from 2RUC or 205, apparently you boys have had to shelve Amateur Radio for a time. The Hunter Branch field day was attended by Geoff 2VU, Ted 2GV and Ken 2ANU. Last heard of Ted was that he was visiting 2APF at Tamworth. Only two stations were heard operating in the V.H.F. Group spring field day—2VU and 2ANU, who were kept busy with messages and finding someone to pass them too. Geoff busy building phased array for 3 mcs and Ken building converters.

### SOUTH WESTERN ZONE

I think by this time the chaps of this zone will have recovered from the Convention and

are once again either building or using the gear for DX or otherwise. Your scribe had a very welcome visit from Eric 2DY, Peggy and family, who were visiting at Wagga, and I furnished the Murrumbidgee to come to Cooluma. Les 2ZBJ at Quinty is still very active on 144 Mc. and is experimenting with p.m.s. and directional mts, has talked your scribe into the stuff, also. However, it is good fun playing around, isn't it Les?

Don 2RS at Albury is active from home QTH after holidays. Don recently had a visit from 2Z1J and was impressed with the mighty signal from Les' mobile. Art 2Z1U is also talking about 144 Mc., after the visit. Lyn 2AQE is active occasionally from Wagga. Haven't heard 2AD or 2BW. The Tumut Gang have not been heard over here, although have heard 2ZAA on 144 Mc.

### COALFIELDS AND LAKES

Cec EKR and other Way Woy gans have the arrangements for the field day to be held on the 18th. Major 2RU still the only station heard here from the Goulford area. Doug 2ASA, of Tuggerawang, on 144 Mc. fairly regularly and also can be found on 21 Mc. Nothing heard this month from Bob 2KF, but understand he is active. From Singleton, Geoff 2VU on 144 Mc. most nights and also active for Newcastle-Sydney contacts. Another regular 144 Mc. boy is Ken 2ANU, from Muswellbrook. Duncan 2MC hopes to be active by Xmas. Chris not active at present time, but 2FZ is OK to operate if he needs permits. 2YL active most hands when time permits, the highlight of the month at 2YL was the visit of the visit of WIAL and his good wife; it was a great thrill to meet Bill in person after over 30 years of Ham contacts.

### VICTORIA

At the November general meeting, Maurice Anderson (3AMA) gave a very interesting lecture on his recent trip to Central Australia for the opening of the John Flynn Memorial Church. Firstly he sketched the route of his trip via N.S.W. and Western Queensland, then he showed his large collection of 35 mm. coloured slides, weaving the story of his trip around the subject of each slide. The brilliant colouring of Eyre's Rock, Simpson's Gap, the mountains and scenery of the Central and the enormous carpets of wild flowers were very amazing and wonderfully portrayed in his very excellent collection of slides. Stan 2TE assisted Maurice with the showing of the slides and Stan, himself, had some very excellent slides of his own which he also showed. Maurice brought in his 40 mm mobile rig which he used on the trip and is a very neat and compact little unit. Now

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**JAMA**, he has previously held the call **3MA** and was one of the original radio crew in the Flying Doctor Service and his name appears on the label at the John Flynn Memorial Hospital under the names of Alf Traeger and Harry Kauper.

The following were welcomed as new members of the Institute—Messrs. R. J. Heasman (WJ), J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Owing to the Olympics, the Bi-monthly Banquets will not be held in December. Don't look now, but that store has been around again. Congrats to the John Flynn Memorial Hospital. Betty Vertigan, they have a brand new little daughter, Karen Lee, who arrived on 18th October. ... doing well, especially the father, he's just fine!

#### STATE CONVENTION

A very successful and enjoyable State Convention was held at Leongatha, most picturesque country town in the Gippsland area, on the week-end of 2nd and 4th November.

Approximately fifty sat down to the dinner which was held at the Leongatha Hotel. Several **XYLs** made the trip with their OMs and after the dinner started each was presented with a gift. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Council and Mrs. Bond, of Leongatha, were guests of honour at the dinner and were taken to Amateurs and their families from Melbourne and other parts of the State who had travelled for Leongatha for the Convention.

After the dinner the ladies retired and spent the evening at the local picture theatre while the OMs got down to business. Among the subjects discussed were the question of the use of harmonics, Bruce and Ronald, Vernie, 3PR's **XYL** was responsible for this lovely surprise, which was very much appreciated by the ladies, making them feel really welcome in their OMs world.

Unfortunately because of the weather, which couldn't possibly have been better, Sunday activities had to be curtailed slightly, however despite the very cold weather and unceasing rain, all enjoyed the day. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

The picnic lunch which was to have been held at the Moss Vale Park had to be transferred to Chateau Chateau. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

After lunch a tx hunt on 80 mc was run and was a success. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

After the hunt the Convention wound up with cheerio, 73 and a wish in everybody's heart to all meet again for this grand get-together next year.

Congratulations to Ron Jardine 3PR and the boys of the Eastern Zone for a very well organized and most enjoyable Convention.

#### 80 METRE TRANSMITTER HUNT

The luck of the 80 metre transmitter hunters is almost unbelievable, after that dreadful week of continuous rain, the sun came out and above, and once again the 80 metre hunters were out for their hunt. A good crowd turned up, approx. 40. 3RZAD and Barry JJB had the tx and they chose a very excellent spot. It was at Cooriberry, a particularly scenic spot. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

The result of the hunt was a dead-heat between 3LN's son and 3JEN's daughter. What's all this about what's going on between our transmitters? ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

#### SOUTH WESTERN ZONE

The zone activities this month have been good and the half-yearly convention being held has added to the activities. Gordon JAGW, Colac is busy getting everything tied up at his new QTH, and also busy with t.v. Harry 3XJ is giving 31 Mc, a hearing, has had some nice contacts. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Well now for the convention. The usual meeting was held at the job whilst travelling to Ballarat, they comprised JAGW, 3AKR, JAGD, 3JW, 3AAH, 3ALQ, 3AID, 3AC, 3IC, 3AGV, 3XJ and 3ALJ. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

After the dinner there was a film night which was very good. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Sunday was started off by a visit to the local station. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

We take this opportunity to thank Bob 3GR, who did a marvelous job in every way, also 3VA on the tx hunt with 3XJ and 3AC. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

#### NORTH EASTERN ZONE

Bruce JAGG and XYL are being congratulated on the addition of a daughter to the family. Jim 3AK is active on 10 mc. Des 3SC is also active. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Recently Murray 3HZ was found hard at it in the new garden and Alex 3AT still can't find time to spend on his hobbies. Harvey 3ZG is spending some time in this area and considering 31 mc operation. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

#### LEONGATHA ZONE

The State Convention held at Leongatha proved a grand success due to the very capable organising by Ron 3PR and XYL. A total of 55 sat down for the dinner after which the entertainment was most enjoyable. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Rev 3VJ and Gwen 3JW have some nice v.h.f. gear. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

A note of thanks and appreciation go to Ron 3PR and XYL, who both helped with the arrangements.

Sympathy is extended to Ron 3PR upon the sad news of the loss of his wife who has not enjoyed good health for some time.

#### GEELONG AMATEUR RADIO CLUB

Recently Cyril Ham entertained members with Mr. J. Firth at a slide lecture—the topic was "The World as I See It". ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Many of the boys visited the convention at Adelaide and a great time was had by all. The location was most enjoyable. It was pleasing to see B.W. Zone members in the person of 3AKR, 3JAG, 3ALQ, 3AID, 3AC, 3IC, 3AGV, 3XJ and 3ALJ. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Chas 3XK delivered an interesting talk with gear to hand on transmitters. Chas spoke on his experiences with the tx and rx he constructed for 40 and 80 mc. The gear is also compact enough for mobile operation. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

The tx. is being well received in Geelong and the club is planning to hold a meeting on the opening of HSV7. We hope he won't be too ardent a supporter of this new medium. We wish our friends our best wishes for the Xmas Season.

#### QUEENSLAND

##### BRISBANE AND DISTRICT

Some months ago Council decided that a rebuilding project was due and set an unofficial target of 100 members for the Division by the end of the year. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

The authorities seem to be becoming more sympathetic to the needs of the fraternity. Senator Hannan suggested that all licensed Amateurs should be treated on the increase of sales tax. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

On the first point there will be hearty approval. Because that 25 per cent can make a big dent in your bankroll but on the increase of sales tax a few of us will differ in our opinions. Anyone who has been in areas where a kilowatt is sold for 10 pence and replaced with a kilowatt less than 10 pence can see the advantage. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

By now all Hams in Queensland have received the procedure to follow in case of an emergency. Vince 4VJ, and the Emergency Netting Committee have been working on the procedure and information from all sources has made the plan almost foolproof. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

Don't forget the Christmas Get-together this year. It will be held at Annas House on the 15th. ... J. J. McLean (2XJL), M. E. H. Mitchell (3AEN), and J. W. Ballinger (3NK) as full members, and Messrs L. F. Beal and A. J. ...

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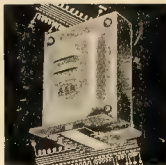
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| " 1768    | " " " | " " "    | " "         | 325-C.T.-325 | " 1781    | " " " | " "        | " 400-C.T.-400 |                |
| " 1769    | " " " | " " "    | " "         | 350-C.T.-350 | " 1782    | " " " | " "        | " 450-C.T.-450 |                |
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| " 1772    | " " " | " " "    | " "         | 325-C.T.-325 | Type 1371 | 300   | Ma. D.C.   | Sec. Volts:    | 1000, 850, 750 |
| " 1773    | " " " | " " "    | " "         | 350-C.T.-350 |           | 400   | Ma. Inter- |                | 600, 500 each  |
| " 1774*   | " " " | " " "    | " "         | 350-C.T.-350 |           |       |            |                |                |
| " 1775    | " " " | " " "    | " "         | 385-C.T.-385 |           |       |            |                |                |

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December as the fourth Friday is right in the middle of the festive season so you can make the Get-together do instead.

Well, all the very best wishes to you and yours for a Merry Christmas and a successful 1957.

#### TOWNVILLE

Before going to the monthly meeting, went along to the usual "check-up" in hospital. Very glad to report to all his well-wishers that Ed's fourth operation was successful. Ed hope you are soon home and get another "check-up" from me.

Again the meeting just managed to scrape up a quorum plus two associates who are anxiously awaiting result of last examination. Great plans were made to increase roll up in the New Year. The Emergency procedure pamphlet was very hotly discussed and it was agreed that the not enough information given and no mention of local police and post-masters being informed re their part in co-operating in times of emergency.

John ADK is getting up tomorrow said to have nice c.w.'s next complete with hand rail. Vern 4IK is in throne of anticipation of breakthrough on let c.w. has broken through from Sydney to Brisbane: also 144 Mc. from Maryborough to Warwick. John 4OD putting up four elements on a hill that did yeoman service for VK3. Alan 4DE is expected to return home again as family dogged by bad luck while down south. The ether whispers that Norm 4DT is on his way for long spell in the south and has arranged for emergency gear to be available in Mareeba while he is away.

Visitor to my shack this month was Ted 4EW, mobil on transfer to Darwin, and promised to meet Danny WE on his arrival in Darwin. Now Danny is back in the States, but leaving yacht "Yasme"—still undaunted and looking for another boat to complete his journey.

#### MARYBOROUGH

First result of the 60 foot tower at 4CR was a 3 mX contact over 180 miles to 4ZAF at Warwick. This is a new State record. Next on the menu was the 400 watt contest. Ron had to go up. 4RG re-built his power supplies and the increased power of 35 watts blew two by-ones and a 500W 3000 watt setting down. Ron has been climbing out of bed at dawn to work Africans on 14 Mc. and reckons the new countries worked have been worth it. 4HZ, of temporary nature, has been active. 4RG bought up the remains of a windmill tower and went on his way rejoicing.

### SOUTH AUSTRALIA

Our T.V.I. Committee should be pleased with the excellent reception they obtained at the October meeting, when they provided lectures for the evening. The vast attendance of members and associates, together with 13 visitors, brought the assembly to over 140 which was a clear demonstration of the confidence members have in the Committee to provide some really good information to enable us to keep c.w. on the air. The visitors were really intending doing something about it to enable us to keep on the air and not let this new medium of communication be left inactive.

Ray TKZ introduced the two speakers, Bob Gurr (8RG) and Ian WE (3IW) and gave an outline of what we were to expect. Bob got right into it and outlined the way to get into the assembly of references, from where they had been received, and how (Rob's XVI, who has been heard on the receiving end of them), and then indicated equipment built and under construction, some of which was on display.

The information available was assembled from all over the world, with particular reference to U.S.A. where A.R.R.L. led the field, and a great number of manufacturers who had years of experience in t.v. activities and t.v.i. problems assisted by supplying their angles of approach.

It is apparent that a careful study of the A.R.R.L. handbook and the Remington Rand T.V.I. book will be the main source of inspiration for the near future. No answers, so go to it chaps, we all have to learn.

Rob quote some statistics obtained from the British P.M.G. on the number of t.v.i. complaints registered in the last year. It will cheer you up to learn that Ham T.V.I. represented but 1 per cent. of the total, all the rest being domestic appliances. Including those with universal motors and vibrators (shades of razors here). He concluded by giving acknowledgment to the boys who were ready to help out on their present activities and were keeping VK3 posted.

John 4DK followed by Ian who had previously set up two t.v. r.c.s., a pattern generator and a

small tx loaned by Les 5AX, amongst other items of interest including a g.d.o. that we all wanted to take home. He outlined the equipment on demonstration and then went straight to the practice, showing how a t.v. could happen, to the screen, when a tx was in use nearby that had not been completely proofed. The effect of "sweeping", harmonic radiation, and spurious signals, and their effect and made some of us wonder what volume of trade would be offering next "tender" night. Les was also able to show the effect of incorrect I.F. frequencies and how disastrous such could be, and concluded by offering suggestions for cure of all apparent troubles. It was very interesting to note that the T.V.I. Committee are to build a table-topper from which all bugs have been removed, and some time in the future they will be able to show the demonstration (and article for the magazine, I hope—Ed.)

A short practical talk was given by Bob Leifson (43HRC) on how he got over t.v.i. and lived alongside t.v. in a fringe area, most interesting Bob, and thanks.

The main thoughts left with us all was that in future we will have to box within a box, within a screen, to keep those harmonics in their places, and by-pass all power leads to the screen and also to the earth. The t.v. screen and a few more r.f. chokes and puffs here and there.

Many thanks go to Ray, Rob, and Ian for assembling such a wealth of information and delivering such interesting lectures, and to Ian and Les for the gear used in the demonstrations. It was so us not to make use of both the information that has been obtained, and the gear they are to make available to keep our houses in order. If you are not sure of the approach, start with an envelope sent to the Committee with your enquiry will bring a prompt reply. They even have all the dope on B. & W. coils, so don't let B. & W. 3003 ever leave you again.

The general business of the evening was followed after G.S.L. cards had been handed out, which included the collection of money from associate members, J. E. Barker, K. L. Metcalf, J. Talet-Kelka, B. A. Enderbee, J. E. S. Killa, J. C. Kopp, J. S. Aaseb, N. Errey, and J. C. Grivell, whilst E. S. Whittington was asked to raise to full membership, and Vic Taylor (GWSLE/M) on M.V. "Agamemnon" was granted honorary membership for one month.

A sub-committee under the joint control of "Doc" SMD and Les 5LC has been formed to look after the exhibit in the 1957 Manufacturers' Exhibition. This will be the loan of our equipment, operators, helpers, and yet more helpers, to get organised, for although there appears a lot of time ahead there is a lot to do to get to be able to take on the job. So don't be backward, join in the project and further the Institute's efforts; it's good publicity, helps membership and promotes good public relations.

Welcome back to the bands goes to Chas 6ON this month; very pleased to hear you on again and hope you find the new QTH to your liking. Bert 8KG is doing well with 10 mX DX these days, using a vertical with single wire feed. The 400 watt Class 2 is doing well with 29 miles to try their luck, in fact the opening meeting was so good a larger room had to be hired to accommodate them, all—so there is now more room for you. AYL is joining the ranks, all the best to her.

#### NORTH WESTERN

Not much heard from the gibber country this month, so presume they are on the DX bands with their various thombas. The Port Lincoln spy advised Pat 5LT is back from hospital and doing well on the future. Bob 5LJ is shifting his QTH and by the time these notes are read he should be settled down near the 400 watt Class 2. In the meantime, he is well in his new place of abode; don't forget the Lincoln boys Jack, 49 mX will get over to meet quite well. Wal 5DZ is still active particularly on Sunday mornings. 40 mX has plans for a re-build to get on to other bands. Alf Mack is sweating hard for A.O.C.P.; stick it out, we'll be with you. George 5GA still has a punch for you. George 5GA still has a punch, but not yet on to our bands, hopes to soon.

#### SOUTH EAST

Leo 5ZAG provided a lecture for last meeting based on carrier telephony (P.M.G. style), most interesting and all looking forward to a construction of some kind. Leo 5ZAG had a lot to say about his caravan trip to VK3 which kept him away from the bands for the month. Col 5GJ was on the bands for a few days. The new 5MS, who is getting his rig in order for Special Europe contacts when Maxine goes there soon to the Guide camp as representative of the club, is doing well. Leo 5ZAG is on 2 mX but finds his sign won't penetrate the

300 ft. mast at the h.c. station, preventing a Remark hook-up—put it on top, Dave! Erg 3KU manages a few DX on 20 c.w., to keep his hand in, but is spending most of his spare time with the 400 watt Class 2. A few more, Erg, for they do crack you know.

### WESTERN AUSTRALIA

At the October Divisional meeting Mr. Archie Blackland gave a most interesting lecture on "Astrid Frequency Bands" and how, as the stars are thousands of "light" years away it would be useless to send radio messages. GMD was asked to remark that they probably would not QSL anyway.

A visitor to the meeting was Keith Smith from ZS, who is radio op. on a boat that was visiting Fremantle. He had a number of members who were unable to attend appreciated the recording of the lecture put over by Wally 5AG on the W.R.L.A. news broadcast on Sunday. It came through very well and was very interesting. Congratulations to Tom 5TH on winning the 40 mX scramble. Understand that Tom is in the 12700 Hz. band. Ham Radio course! Tom is doing some boating when the boat stays above water. Your scribe has been out on the water for a number of months, but the new modulator (400 W) was completed during the month and is working very well according to reports received.

5RU was heard on the key during the "CQ" Contest. At the time of writing the final R.D. results are not to hand, but we understand that 5RU was a good majority.

The December "Contest" will be held at 6AG's QTH at Darlington. (Does the mast head painting, Wally?)

The 400 watt Class 2 meeting will be held on 17th December, and as usual being near Xmas, will take the form of a social evening—visitors are especially welcome. Those who have given lectures during the year, to whom we offer our thanks and appreciation.

That's about all for 1956 excepting to wish all our friends Xmas and good DX during the coming year.

### TASMANIA

As usual, no scandal been passed on this way so in desperation will have to fill and pad with what we can. The newly formed Highlands Radio Society, this Society has been formed successfully with Reg TWN President, Harry TBR Secretary; Committee: Jim TZAM, Mick Davis and T. J. Mann. The Society has been given a lot of instruction at Bronte Park under Taa, and Radio Theory by Harry TBR. At Tarraleah, the Reg TWN has been pounding and Jim TZAM has been working on the 400 watt Class 2 QTH, to wit, an ex-war-time op. in the 15 w.p.m. group. Group have resolved to operate as a unit of the new Tasmanian Radio Society. A monthly social evening. First social night has been held with a lecture and demonstration of fidelity equipment. Reg gave a masterful lecture on the subject and followed with a demonstration with the assistance of Bob Wade whose equipment was made available. The position of the Society has been improved by the change over networks where speakers were out in and out. Result, radiograms are to be obtained cheaply by this means.

Next month lectures there will be arranged on archery with practical demonstration—both competitive and the art applied to hunting with the bow. By the way, one will find in this direction, will do the necessary. Future lectures arranged are navigation aids and communications, and photography with an associated showing of slides.

Only note heard from other areas is that beaded congrats are due to Bill FYO with a family of four. By the way, one will find in this type. The new scribe in the North West is noted to be burning up the paper to no order of the usual style, and Jim TBR anticipates another QTH in the future, but any reports of the final move will be reasonably accurate. The last scribe moved Len and I all over the State on our last walkabout.

#### NORTHERN ZONE

A good attendance of members attended the Transant Com. Branch of the 1956 meeting to hear a lecture and demonstration on "Super-Noise Fault Detection," given by associate Geoff Crompton. This was followed by an inspection of the new diesel electric locomotive workshops where they saw two locomotives in the course of re-construction after a fatal derailment several months ago.

At the last meeting members discussed the question of hidden tx hunts again, and a programme of events will be drawn up at the next meeting. H. R. Conner, Chris, don't you wish you could be in it?

# INDEX TO VOLUME 24-1956

The general activity is down to a low level, but may brighten up with the summer months ahead. Perc T2AW has settled in to his new QTH; they say there is no room for the gear, better find a good samaritan Perc if you have not already done so. Heard the other day Henry's eldest harmonic is off to Mawson with the next relief party, must have been too hot for him in VK. Maybe we will see some good photographs submitted when he returns. "What say young fellow?" George TGC has his full ticket now, so let's hear you soon on all bands. Things are quiet in VK4 land; about as few lines TLR or have you changed your call sign? We are all so curious.

## NORTH WESTERN ZONE

The monthly meeting of the zone was held at my QTH in Wynyard on Oct. 23 and was well attended with 18 present, including two new associates. A hearty welcome to you both. As the zone numbers are increasing, it was decided to continue holding two monthly meetings with lectures to be given by members. "Guess the resonant frequency" was a little thing cooked up by our President, Jim TJO, and consisted of a coil and variable condenser combination; formulae and calculation were given and everywhere, I even found one effort on the wall above the mantelpiece. First prize was a lovely set, brand new, with crinkly plates, won by Denis TDL.

After this an auction was held, and it was terrible to see fairly normal human beings rapidly degenerate into things that elbowed their neighbours, shouted bids, fondly stroked various pieces of junk, and generally came under the hypnotic spell of the auctioneer, Ted T2J. Glad to hear you've got your voice back. Incidentally, we're missing a small mantle model; what did that bring Ted?

How's that r.c. coming along, Johnny Leaf? Believe the p.d. that associate Max has built makes a good signal source. The detector T2L and his tape recorder, have not been sighted this month, you were out when I called, George. Denis TDL has a fine ground plane adorning his garage roof and seems well pleased with the DX on 30 mx. The radiator is cut for 16 mx by the way. Roy T2N is conspicuous by his absent mail, although he was present at the meeting; appeared to be engrossed in earnest conversation with Athol T2L who is currently experimenting with the reception of t.v. Devonport. How are those t.v. beams going there Athol? Put one up over the shop, it's sure to be seen by customers. Leon T2C's town has an antenna farm on the hill, and appears to be having good DX hunting with the cubical quad. In closing, did anyone hear wrap-up story to the Hans on a Parliamentary broadcast early in October?

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